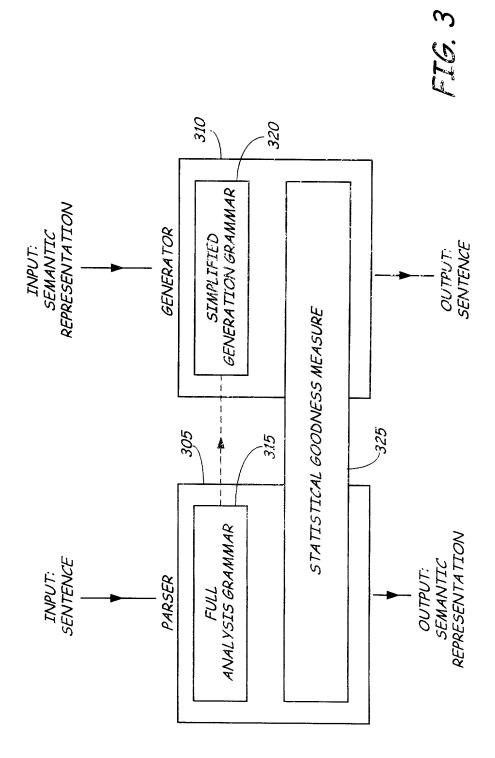
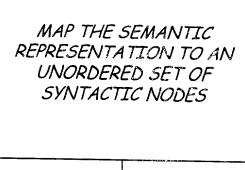


FIG. 2

٠:,



NOWNER OF THE PROPERTY OF



350

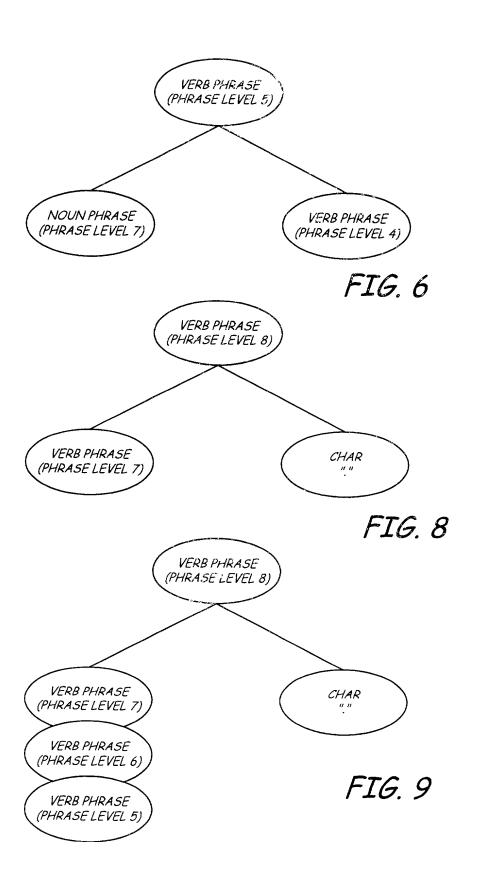
USE GRAMMAR RULES FROM A
GENERATION GRAMMAR AND
STATISTICAL GOODNESS
MEASURE VALUES FROM A
CORRESPONDING ANALYSIS
GRAMMAR TO CREATE A TREE
STRUCTURE TO ORDER THE
SYNATACTIC NODES

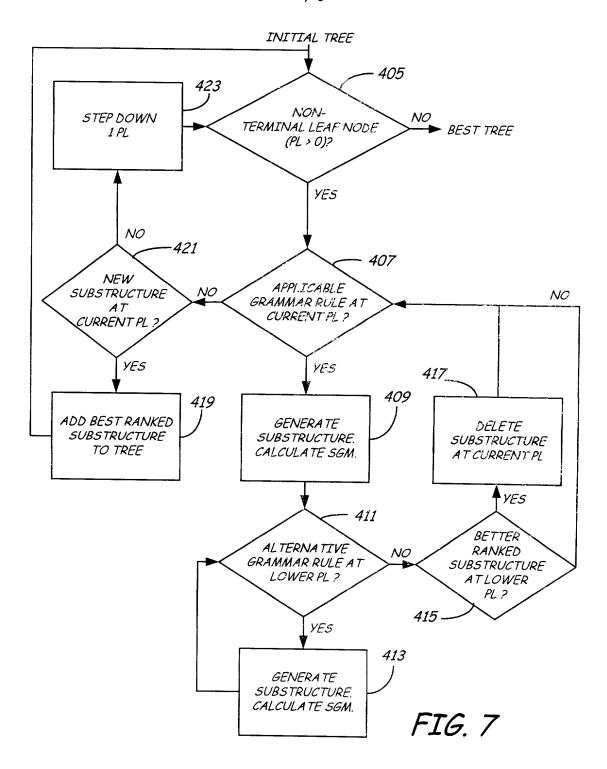
- *355*

PRODUCE AN INFLECTED
FORM OF EACH LEAF NODE IN
THE TREE AND GENERATE
THE SENTENCE FROM THE
TREE STRUCTURE WITH THE
INFLECTED FORM OF EACH
LEAF NODE

- 360

FIG. 5





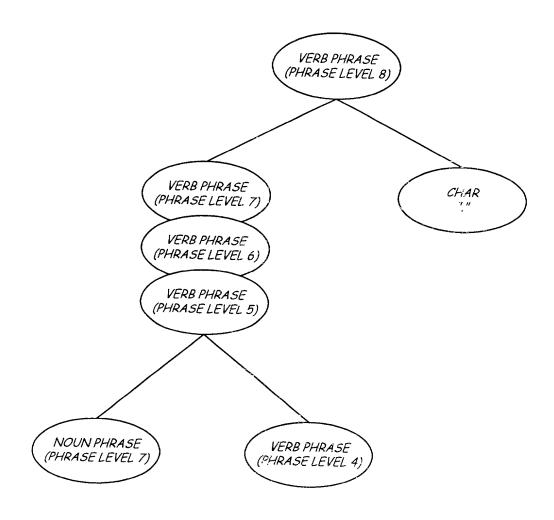


FIG. 10

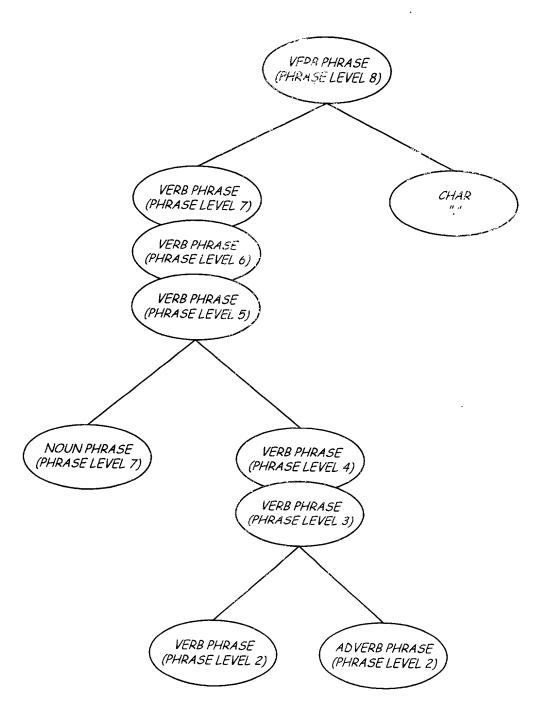
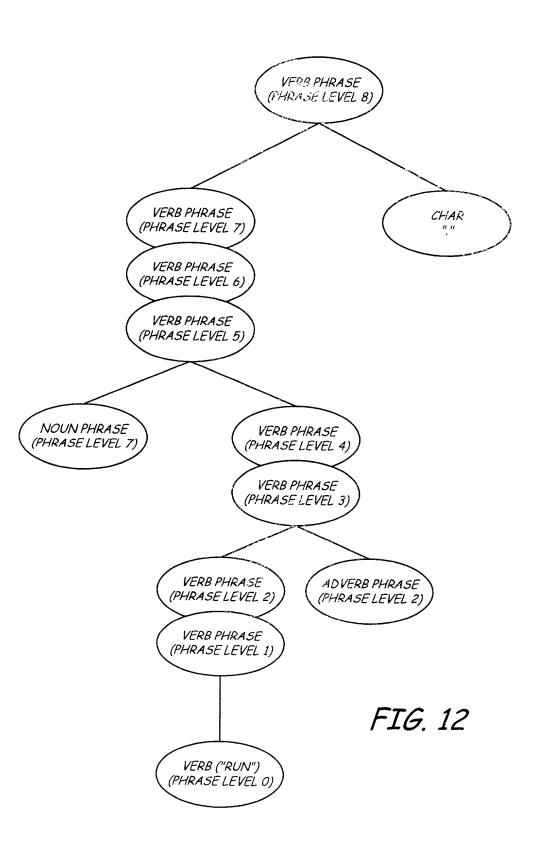


FIG. 11





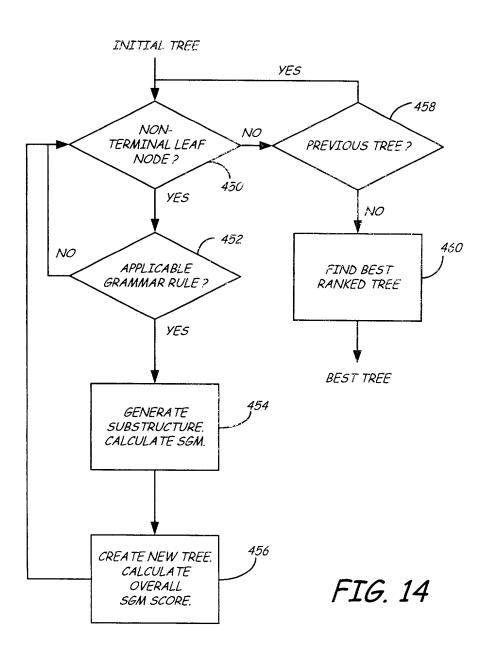
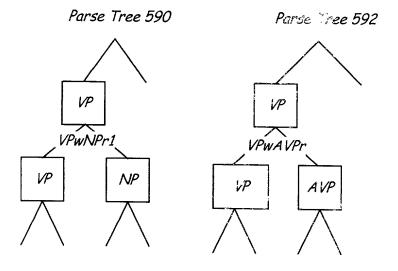


FIG. 15A



Parse Tree 594

Parse Tree 596

VP

hw = "smiled"

VPWAVPr

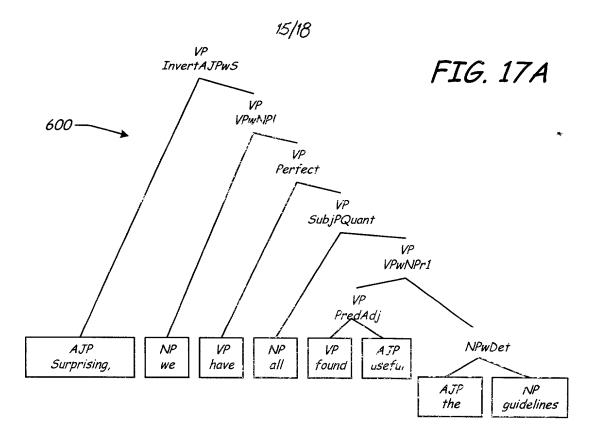
VP

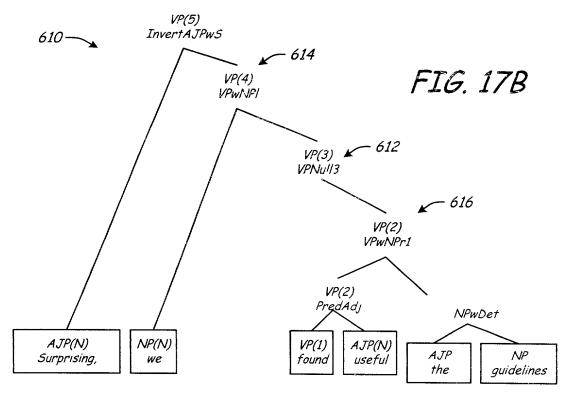
AVP

FIG. 15B

Q'
•
D

Rule Name	Rule				Description (and an example)
VERBtoVP	VP	1	VERB		Promote a verb into a verb phrase
D d A d:	d/X	,	d/Y	4 ID	Add on an adjective.
FredAdj	<u>></u>	↑		AJF	"It has been <u>found effective</u> "
of the state of the	ļ <u>.</u>			5	Add direct object to a VP
VPWNPri	>	↑	7	\ Z	" <i>I <u>hit</u> <u>Bill</u>"</i>
	0.5			62	Adds the VP "have" to a VP
reriect	> -	↑	\ \ !	۲.	"Joe <u>had gone"</u>
					Add quantifiers to the VP like "all", "both",
SubjPQuant	VP	↑	NP	VP	:
					"The children have <u>all gone"</u>
VD.wNID	a A	,	N DIN		Add noun subject to a VP
I INIM J A	٠ >			-	"John jumped."
Cubiast A ID	d A	,	di V	Q A	Add AJP subject to a VP
icvasione	- >	1			"More surprising is his attitude"
Luciant A IDu.	αΛ		J GI V	ΛD	Add final modifier, AJP, to the left of a VP
IIVELLAST WS VI	- -	↑			"More remarkable still, he went"
Topicalization VD	ΔΛ	1	dN	ΛD	Add object of VP, NP, to the left of a VP
i opicanizanon	- -	1			"!? better-looking man I have not seen"





Phrase					
Level	Rule Name	Rule		Level Description	ription
_	VERBtoVP	VP(1) →	VERB(PL_Verb_Max)	Create a VP	d
	PredAdj	VP(2)→	VP(1) AJP(PL_AJP_Max)	Max)	
C1	VPwNPr1	VP(2) →	VP(1) NP(PL_AJP_Max)	Max) Add post modifiers	odifiers
	VPNull2	VP(2) →	VP(1)		
	Perfect	VP(3)→	VP(1) VP(2,3)		
3	SubjPQuant	VP(3)→	NP(PL_NP_Max) VP(2,3)	Add "have"	Add "have" and quantifiers
	VPNull3	VP(3) →	VP(2)		
	VPwNPI	VP(4) →	NP(PL_NP_Max) VP(3)		
4	SubjectAJP	VP(4) →	AJP(PL_AJP_Max) VP(3)	Add subject	
	VPNull4	VP(4) →	VP(3)		
	InvertAJPwS	VP(5) →	AJP(PL_AJP_Max) VP(4)	وترض شارين	Add modifiers to VPs that
5	Topicalization	VP(5) →	NP(PL_NP_Max) VP(4)	have a subject	ect
!	VPNull5	VP(5) →	VP(4)		

FIG. 18

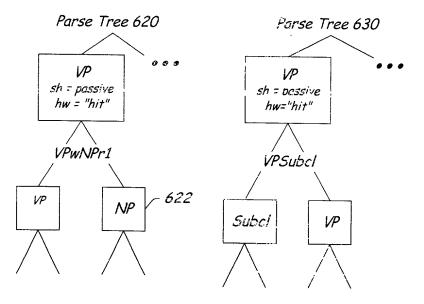


FIG. 19

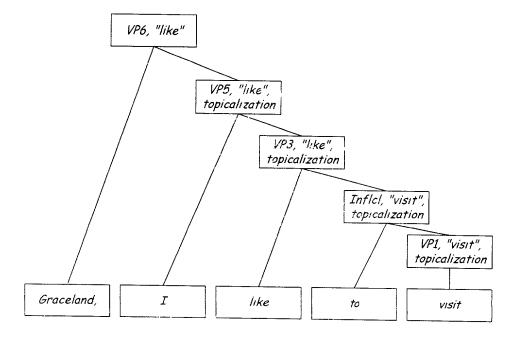


FIG. 20

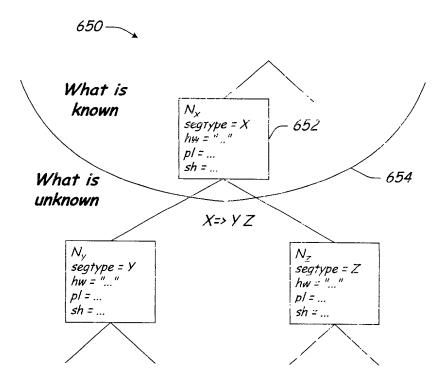


FIG. 21